

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
10 May 2002 (10.05.2002)

PCT

(10) International Publication Number  
**WO 02/36108 A2**

(51) International Patent Classification<sup>7</sup>: **A61K 31/00**,  
31/155, 31/145, 31/20, 31/4192, 31/4174, 39/395, 48/00,  
A61P 9/10, 31/00, 25/00, 25/06, 25/28

**OKUYAMA, Shigeru** [JP/JP]; 2-152-30, Futatsuya, Kita-  
moto City, Saitama 364-0014 (JP).

(21) International Application Number: PCT/US01/27605

(74) Agent: **BAKER, Jean, C.**; Quarles & Brady LLP, 411 East  
Wisconsin Avenue., Suite 2040, Milwaukee, WI 53202-  
4497 (US).

(22) International Filing Date:  
6 September 2001 (06.09.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/245,638 3 November 2000 (03.11.2000) US

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI,  
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU,  
ZA, ZW.

(71) Applicants (*for all designated States except US*): **MCW  
RESEARCH FOUNDATION, INC.** [US/US]; 8701  
Watertown Plank Road, Milwaukee, WI 53226-0509 (US).  
**TAISHO PHARMACEUTICAL CO., LTD.** [JP/JP];  
1-403, Yoshino-Cho, Ohmioya, Saitama 330-8530 (JP).

(84) Designated States (*regional*): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian  
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European  
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,  
IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF,  
CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,  
TG).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **ROMAN, Richard**  
**J.** [US/US]; 3270 Dartmouth Drive, Brookfield, WI 53005  
(US). **HARDER, David, R.** [US/US]; W290 S6459 Holi-  
day Road, Waukesha, WI 53188 (US). **MIYATA, Noriyuki**  
[JP/JP]; 2-1-6, Nakai, Shinjuku-ku, Tokyo 161-0035 (JP).  
**SATO, Masakazu** [JP/JP]; 4-5-46-402, Higashi, Kohnosu  
City, Saitama 365-0039 (JP). **KAMEO, Kazuya** [JP/JP];  
4-17-8, Akamidai, Kohnosu City, Saitama 365-0064 (JP).

Published:

— without international search report and to be republished  
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: USE OF 20-HETE SYNTHESIZING ENZYME INHIBITORS AS THERAPY FOR CEREBRAL VASCULAR DIS-  
EASES

(57) Abstract: A method for treating cerebral vascular diseases in a human or non-human animal is disclosed. The method involves  
inhibiting 20-HETE synthesizing enzyme activity sufficiently to increase or prevent a decrease in cerebral blood flow in the human  
or non-human animal.

WO 02/36108 A2